

Title (en)
CIRCULAR STAPLING INSTRUMENT WITH UNITARY CLOSURE ROD

Title (de)
KREISFÖRMIGES KLAMMERINSTRUMENT MIT STAB FÜR EINHEITLICHEN VERSCHLUSS

Title (fr)
INSTRUMENT D'AGRAFAGE CIRCULAIRE AVEC TIGE DE FERMETURE UNITAIRE

Publication
EP 3461425 A1 20190403 (EN)

Application
EP 18196884 A 20180926

Priority
US 201715717240 A 20170927

Abstract (en)
An apparatus includes a handle portion, an end effector, an anvil, a knob, and a monolithic closure rod. The monolithic closure rod includes a proximal shank portion, a distal trocar portion, and a band portion. The proximal shank portion is located within the handle portion and is configured to linearly actuate in response to rotation of the knob. The distal trocar portion is configured to selectively couple with the anvil in order to actuate the anvil relative to the end effector. The band portion extends between the proximal shank portion and the distal trocar portion and provides a reduced cross-sectional area. The monolithic closure rod consists of a single homogenous continuum of material extending along the lengths of the proximal shank portion, the band portion, and the distal trocar portion.

IPC 8 full level
A61B 17/072 (2006.01); **A61B 17/00** (2006.01); **A61B 17/115** (2006.01); **A61B 17/29** (2006.01); **A61B 90/00** (2016.01)

CPC (source: EP US)
A61B 17/07207 (2013.01 - US); **A61B 17/1114** (2013.01 - US); **A61B 17/1155** (2013.01 - EP US); **A61B 2017/00477** (2013.01 - EP US); **A61B 2017/07257** (2013.01 - US); **A61B 2017/07271** (2013.01 - US); **A61B 2017/07278** (2013.01 - US); **A61B 2017/1157** (2013.01 - US); **A61B 2090/0811** (2016.02 - EP US)

Citation (applicant)
• US 5205459 A 19930427 - BRINKERHOFF RONALD J [US], et al
• US 5271544 A 19931221 - FOX WILLIAM [US], et al
• US 5275322 A 19940104 - BRINKERHOFF RONALD J [US], et al
• US 5285945 A 19940215 - BRINKERHOFF RONALD J [US], et al
• US 5292053 A 19940308 - BILOTTI FEDERICO [US], et al
• US 5333773 A 19940802 - MAIN LAUREN O [US], et al
• US 5350104 A 19940927 - MAIN LAUREN O [US], et al
• US 5533661 A 19960709 - MAIN LAUREN O [US], et al
• US 8910847 B2 20141216 - NALAGATLA ANIL K [US], et al
• US 2016037471 A1 20160204 - MUFTI SHUJAUR [US]
• US 2016374684 A1 20161229 - DINARDO BRIAN F [US], et al
• US 2012292372 A1 20121122 - NALAGATLA ANIL K [US], et al
• US 2015083773 A1 20150326 - MEASAMER JOHN P [US], et al
• US 7794475 B2 20100914 - HESS CHRISTOPHER J [US], et al
• US 201213693430 A 20121204
• US 201213688951 A 20121129
• US 201213706827 A 20121206
• US 201213688992 A 20121129
• US 201213693455 A 20121204
• US 201213716313 A 20121217
• US 201213716318 A 20121217
• US 201213176323 A

Citation (search report)
• [XA] US 8136712 B2 20120320 - ZINGMAN ARON O [US]
• [IDA] US 2012292372 A1 20121122 - NALAGATLA ANIL K [US], et al
• [XA] US 2010237132 A1 20100923 - MEASAMER JOHN P [US], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3461425 A1 20190403; **EP 3461425 B1 20240214**; BR 112020005851 A2 20200929; CN 111163708 A 20200515; CN 111163708 B 20230512; JP 2020534941 A 20201203; JP 7263329 B2 20230424; US 11039839 B2 20210622; US 2019090873 A1 20190328; WO 2019064145 A1 20190404

DOCDB simple family (application)
EP 18196884 A 20180926; BR 112020005851 A 20180921; CN 201880062892 A 20180921; IB 2018057306 W 20180921; JP 2020517575 A 20180921; US 201715717240 A 20170927